

CLAIMS

5 1. A body-worn personal communications apparatus comprising an antenna and a casing, the casing having disposed within it transceiver circuitry, characterised in that the antenna is a physically-shortened electric antenna.

10 2. An apparatus as claimed in claim 1, characterised in that the physically-shortened electric antenna is a helical antenna.

15 3. An apparatus as claimed in claim 1, characterised in that the physically-shortened electric antenna is a meander-line antenna.

20 4. An apparatus as claimed in ~~any one of claims 1 to 3~~ ^{claim 1} characterised in that the antenna is mounted transversely to a plane through the casing.

25 5. An apparatus as claimed in ~~any one of claims 1 to 4~~ ^{claim 1}, further comprising a microphone, characterised in that the microphone is located at the end of the antenna furthest from the casing.

30 6. An apparatus as claimed in claim 5, characterised in that the antenna is formed from coaxial cable and in that the coaxial cable provides electrical connections between the microphone and the transceiver circuitry.

35 7. An apparatus as claimed in claim 5, characterised in that the antenna is formed from hollow wire and in that a first electrical connection between the microphone and the transceiver circuitry is provided by the hollow wire and in that a second electrical connection between the microphone and the transceiver circuitry is provided by a conductor enclosed by the hollow wire.

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8. An apparatus as claimed in claim 6, characterised in that the microphone provides a low impedance at radio frequencies, thereby enabling the coaxial cable forming the antenna to act as an inductive stub.

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5 9. An apparatus as claimed in ^{claim 5} ~~any one of claims 5 to 8,~~ characterised in that the microphone provides top loading to the antenna.

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